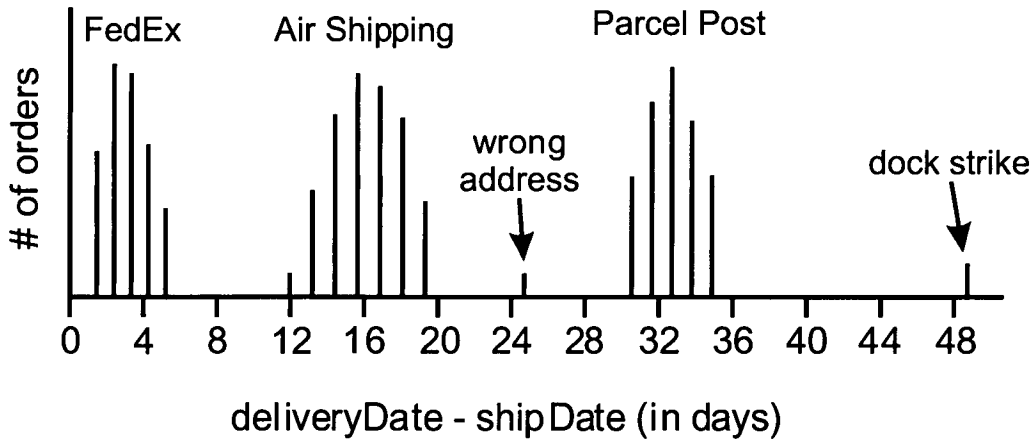
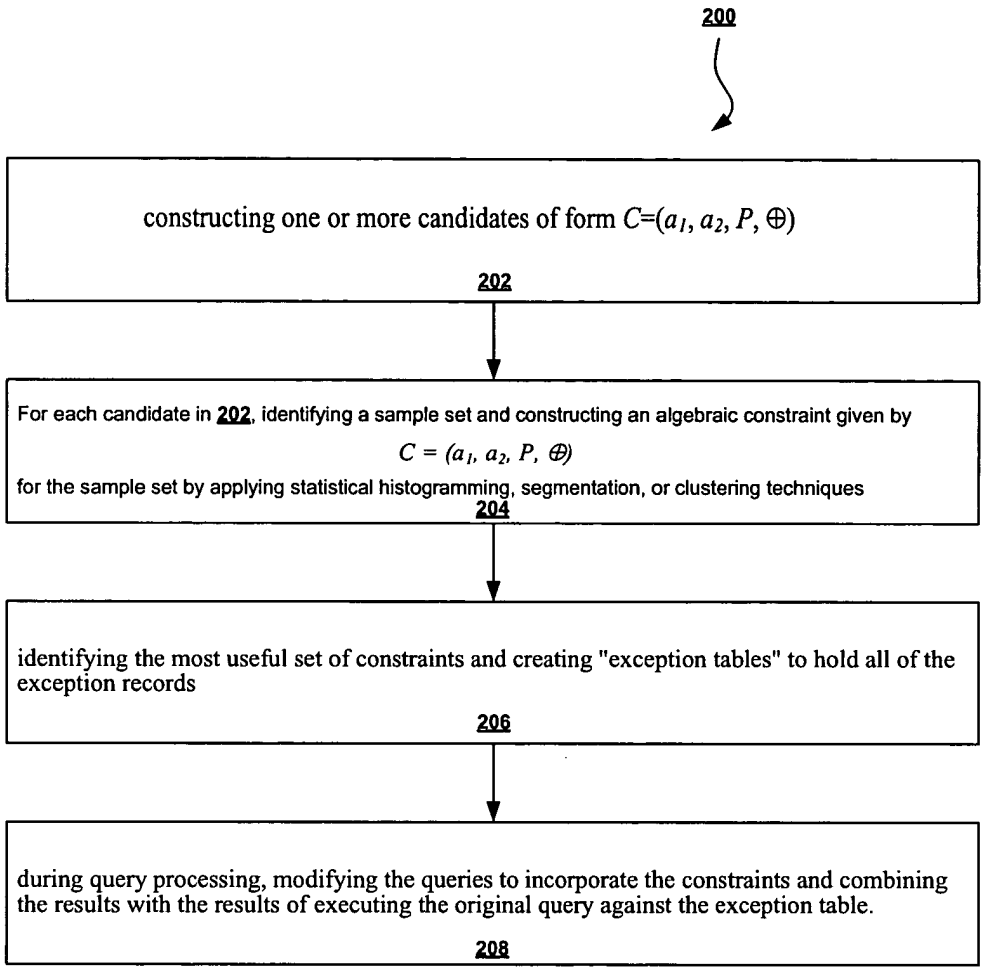

FedEx
Air Shipping
Parcel Post
wrong address
dock strike
# of orders
0 4 8 12 16 20 24 28 32 36 40 44 48
deliveryDate - shipDate (in days)

Figure 1


200
constructing one or more candidates of form $C=(a_1, a_2, P, \oplus)$
202
For each candidate in 202, identifying a sample set and constructing an algebraic constraint given by
$C = (a_1, a_2, P, \oplus)$
for the sample set by applying statistical histogramming, segmentation, or clustering techniques
204
identifying the most useful set of constraints and creating "exception tables" to hold all of the exception records
206
during query processing, modifying the queries to incorporate the constraints and combining the results with the results of executing the original query against the exception table.
208

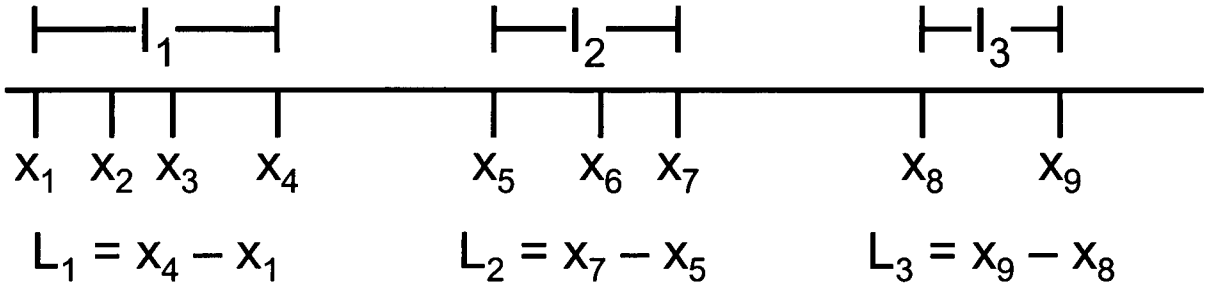


Figure 3

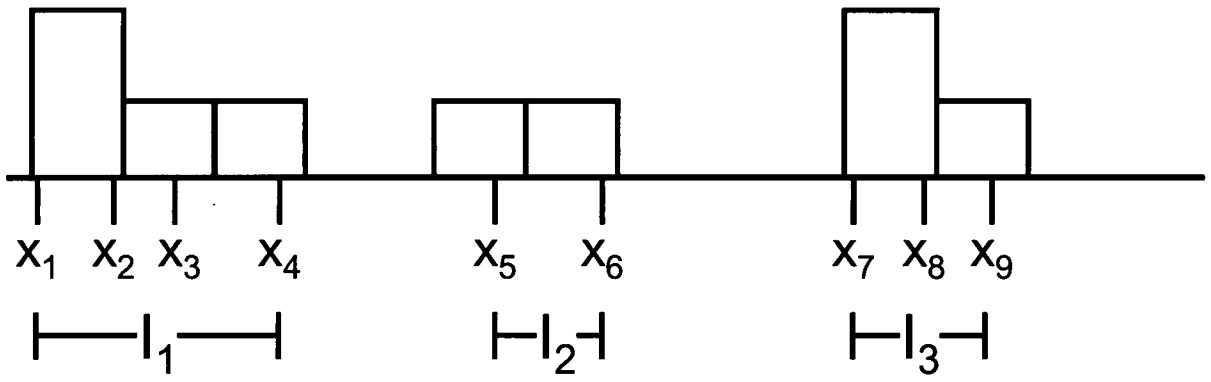


Figure 4

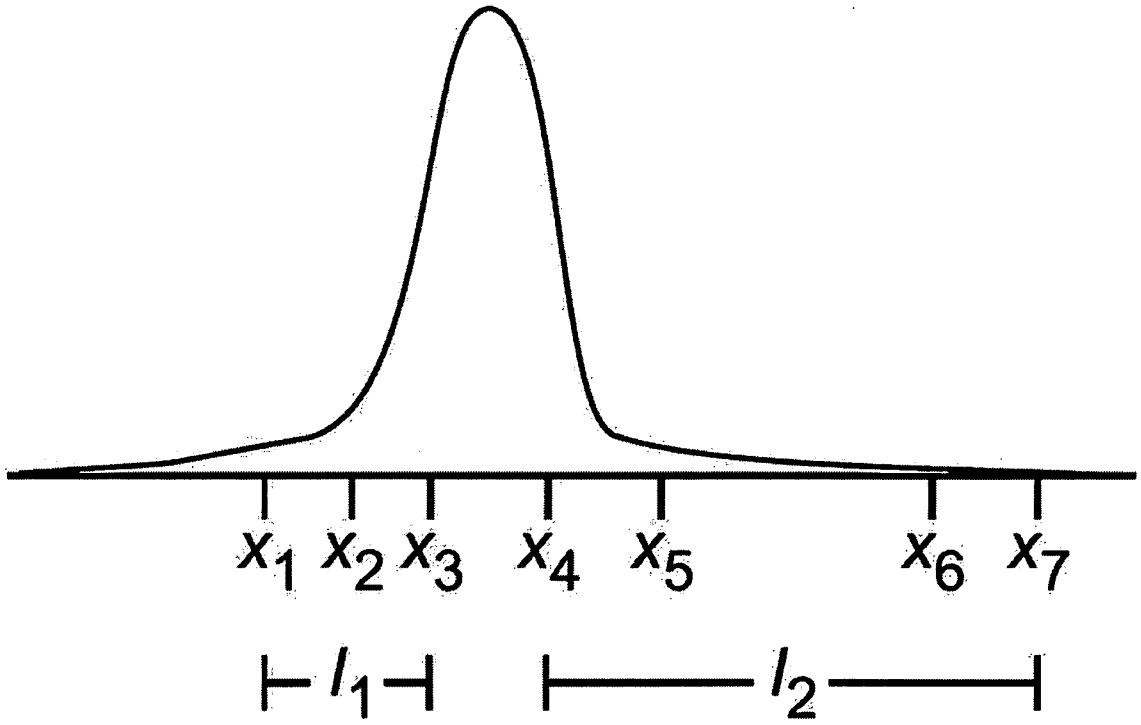


Figure 5

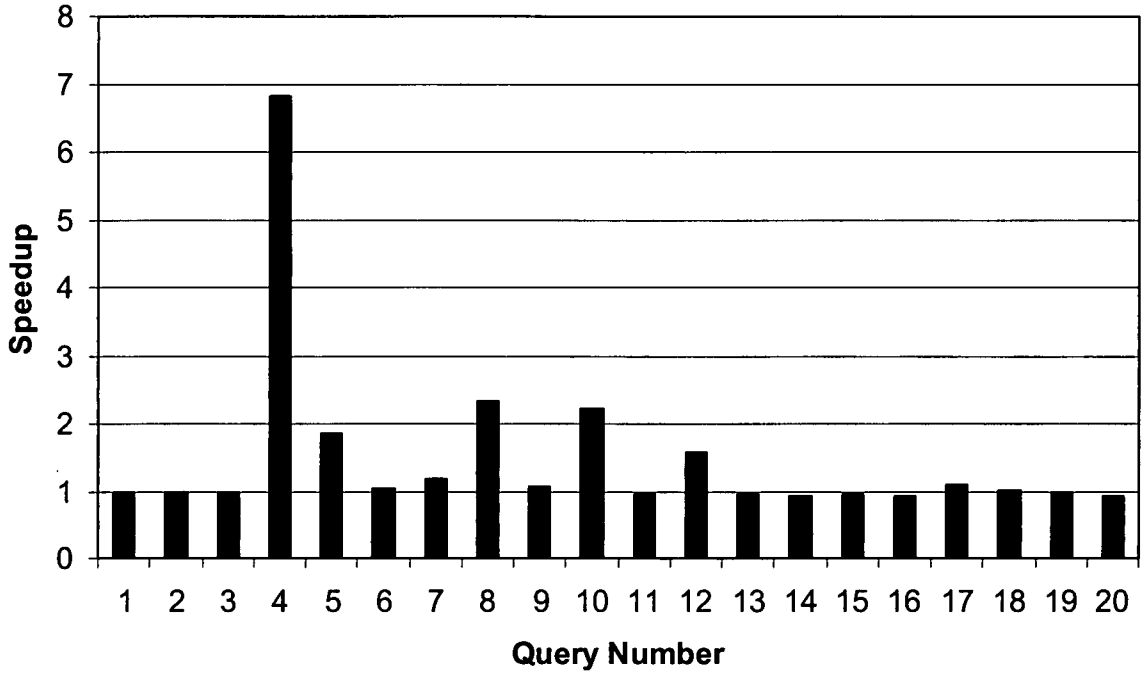

Speedup
0
1
2
3
4
5
6
7
8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Query Number

Figure 6